TSA 2015 Program

Wednesday July 8, 2015

08:30-09:00	**Registration**
09:00-09:15	**Opening Session** Professor William Cheng Chung Chu, *Tunghai University, Taiwan* Professor Shiow-Yang Wu, *National Dong Hwa University, Taiwan* **Location: Conference Room, Azure Hotel**
09:15-10:15	**Keynote** **Topic:** Foundations of the Internet of Things **Speaker:** Jeff Voas *IEEE Fellow and Past President of IEEE Reliability Society, USA &* *Computer Scientist, National Institute of Standards and Technology, USA* **Chair:** Professor W. Eric Wong, *University of Texas at Dallas, USA* **Location: Conference Room, Azure Hotel**
10:15-10:30	Break
10:30-12:00	**Session 1** **Chair:** Professor Sheng-Lung Peng, *National Dong Hwa University, Taiwan* **Location: Conference Room, Azure Hotel**
12:00 - 13:00	**Lunch**
13:30-15:00	**Session 2** **Chair:** Professor Shou-Chih Lo, *National Dong Hwa University, Taiwan* **Location: Conference Room, Azure Hotel**
15:00-15:30	Break
15:30- 17:00	**Session 3** **Chair:** Professor Guanling Lee, *National Dong Hwa University, Taiwan* **Location: Conference Room, Azure Hotel**
17:30-19:30	**Banquet** **Location : Azure Hotel**

08:00-08:30	**Registration**
08:30-9:30	**Session 4** **Chair:** Professor Dianxiang Xu, *Boise State University, USA* **Location: Conference Room, Azure Hotel**
09:30-12:00	**Mini Tour** **Taroko National Park**

The Second International Conference on Trustworthy Systems and Their Applications
Wednesday July 8, 2015

09:00-09:15 Opening Session
09:15-10:15 Keynote

Chair: Professor Shiow-Yang Wu, *National Dong Hwa University, Taiwan*

- *Foundations of the Internet of Things*

  Professor Jeff Voas

  IEEE Fellow and Past President of IEEE Reliability Society, USA &

  Computer Scientist, National Institute of Standards and Technology, USA

10:15 - 10:30 Morning Break
10:30 - 12:00

Session 1 Chairs: Professor Sheng-Lung Peng, National Dong Hwa University, Taiwan

Location: Conference Room, Azure Hotel

- *UTGen: a Black-Box Method-Level Unit-Test Generator for JUnit Test-Platform*

  Chi-Kuang Chang and Nai-Wei Lin

  National Chung Cheng University, Taiwan

- *JFuzz: A Tool for Automated Java Unit Testing based on Data Mutation and Metamorphic Testing Methods*

  Hong Zhu

  Oxford Brookes University, UK

- *Characterizing and Predicting Bug Assignment in OpenStack*

  Jia Tong, LI Ying, Yuan Xiaoyong, Tang Hongyan, and Wu Zhonghai

  Peking University, China

- *A Model Driven Testing Solution for Embedded System with Simulink/Stateflow Model*

  Yunwei Dong[1], Zhe Li[1], Yibo Cheng[1], and Hongbin Zhao[2]

  [1] Northwestern Polytechnic University, China

  [2] State Grid Corporation of China, China

- *Using Social Listening to Evaluate Opinion Research for Social Network Brand Community*

  Tse-Chuan Hsu[1], Dong-Meau Chang[1], Hsin-Jan Lee[1] and Chun-Yu Hsu[2]

[1] Hsuan Chuang University, Taiwan

[2] University of Oxford, UK

13:30 - 15:00

Session 2 Chairs: Professor Shou-Chih Lo, *National Dong Hwa University, Taiwan*

Location: Conference Room, Azure Hotel

- *Security and Optimal Content-Centric Networking Caching design*
  Karan Thakker[1], Chung-Horng Lung[2] and Prathamesh Morde[1]
  [1] University of Ottawa, Canada
  [2] Carletion University, Canada

- *Content Distribution Networks Using Software Defined Networking*
  Jagannath Chandrakanth, Pradeepti Chollangi[1], Dong-Meau Chang[2], and Hsin-Jan Lee[2]
  Carletion University, Canada

- *Quality Assessment Method for Software Requirements Specifications based on Document Characteristics and its Structure*
  Patra Thitisathienkul and Nakornthip Prompoon
  Chulalongkorn University, Thailand

- *Requirements Characteristics Verification Method and Tool based on Rules Constructed from Software Component Relationships*
  Nattapon Phanthanithilerd and Nakornthip Prompoon
  Chulalongkorn University, Thailand

- *Developing a Creative Idea Generation System for Innovative Software Reliability Research*
  Delin Jing[1], Hongji Yang[1], Lei Xu[2], and Fengbao Ma[3]
  [1] Bath Spa University, UK
  [2] Nanjing University, China
  3 Beijing Institute of Fashion Technology, China

15:00-15:30 Afternoon Break

15:30 - 17:00

Session 3 Chairs: Professor Guanling Lee, *National Dong Hwa University, Taiwan*

Location: Conference Room, Azure Hotel

- *Model-Based Testing of SDN Firewalls: A Case Study*
  Izzat Alsmadi, Milson Munakami, and Dianxiang Xu
  Boise State University, USA

- *Evaluating Virtual Cluster Configuration and Compiler Measured*
  Yu-Lin Sung, Chao-Tung Yang, Shuo-Tsung Chen, Kuang-Chin Chang, and Yong-Lun Chen
  Tunghai University, Taiwan

- *Environment Virtualized Distributed Storage System Deployment and Effectiveness Analysis*
  Yong-Lun Chen, Chao-Tung Yang, Shuo-Tsung Chen and Kuang-Chin Chang
  Tunghai University, Taiwan

- *Estimation of Responsibility Metrics to Determine Package Maintainability and Testability*
  Saleh Almugrin, and Austin Melton

Kent State University, USA

- *Indirect Package Coupling Based on Responsibility in an Agile, Object-Oriented Environment*
  Saleh Almugrin, and Austin Melton
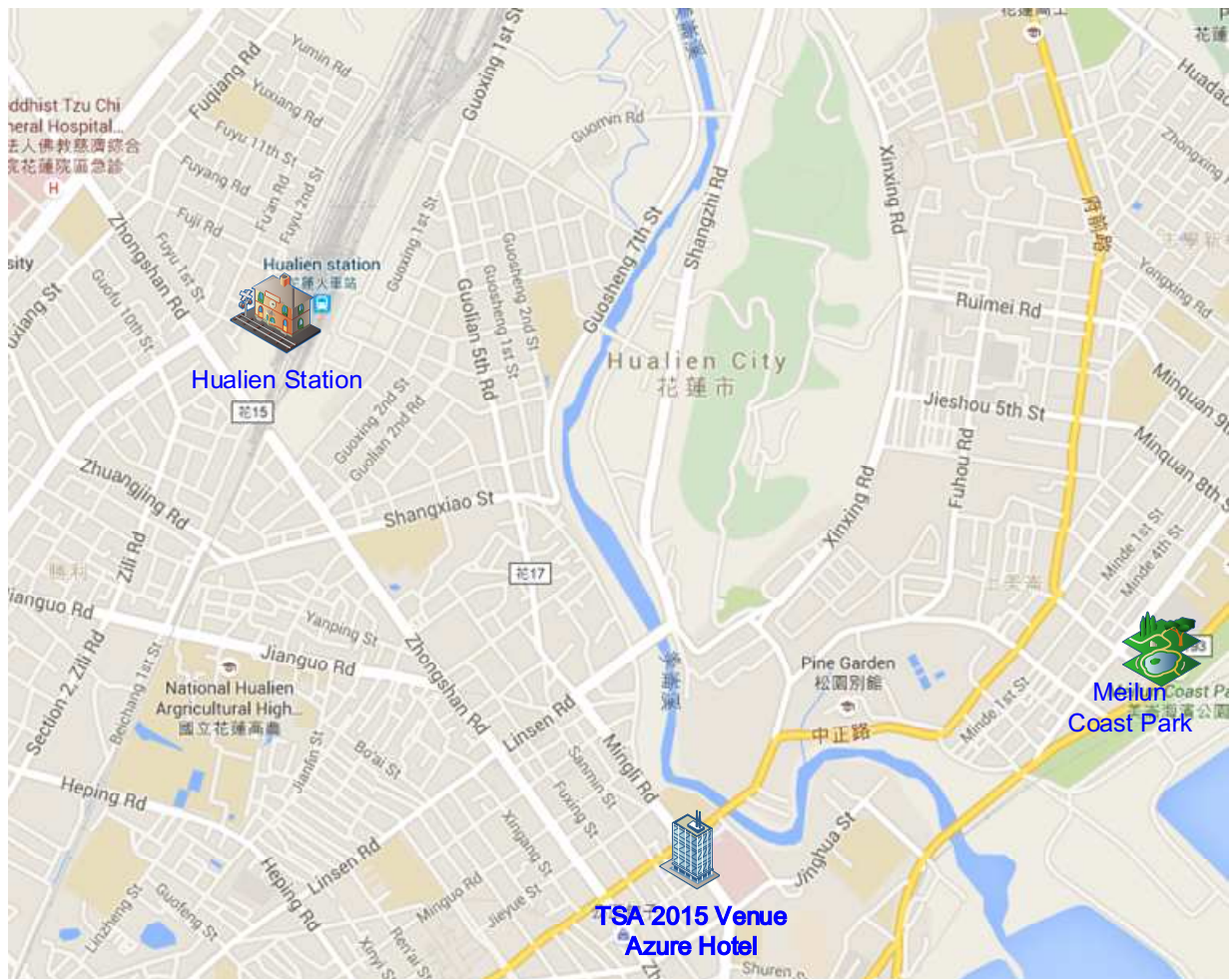 Kent State University, USA

Thursday, July 9, 2015
08:30 - 09:30

Session 4 Chairs: Professor Dianxiang Xu, *Boise State University, USA*
Location: Conference Room, Azure Hotel

- *DRS: A Better Developer Risk Metric for Software Fault Prediction*
  Shou-Yu Lee, Yihao Li, and W. Eric Wong
  University of Texas at Dallas, USA
- *Applying SPOCs for Programming Course to Improve Study*
  Stephen Hung[1], William Cheng-Chung Chu[1] and Chih-Hung Chang[2]
  [1] Tunghai University, Taiwan
  [2] Hsiuping University of Science and Technology, Taiwan
- *Performance Evaluation of Parallel Genetic Algorithm using Single Program Multiple Data Technique*
  Chu-Hsing Lin
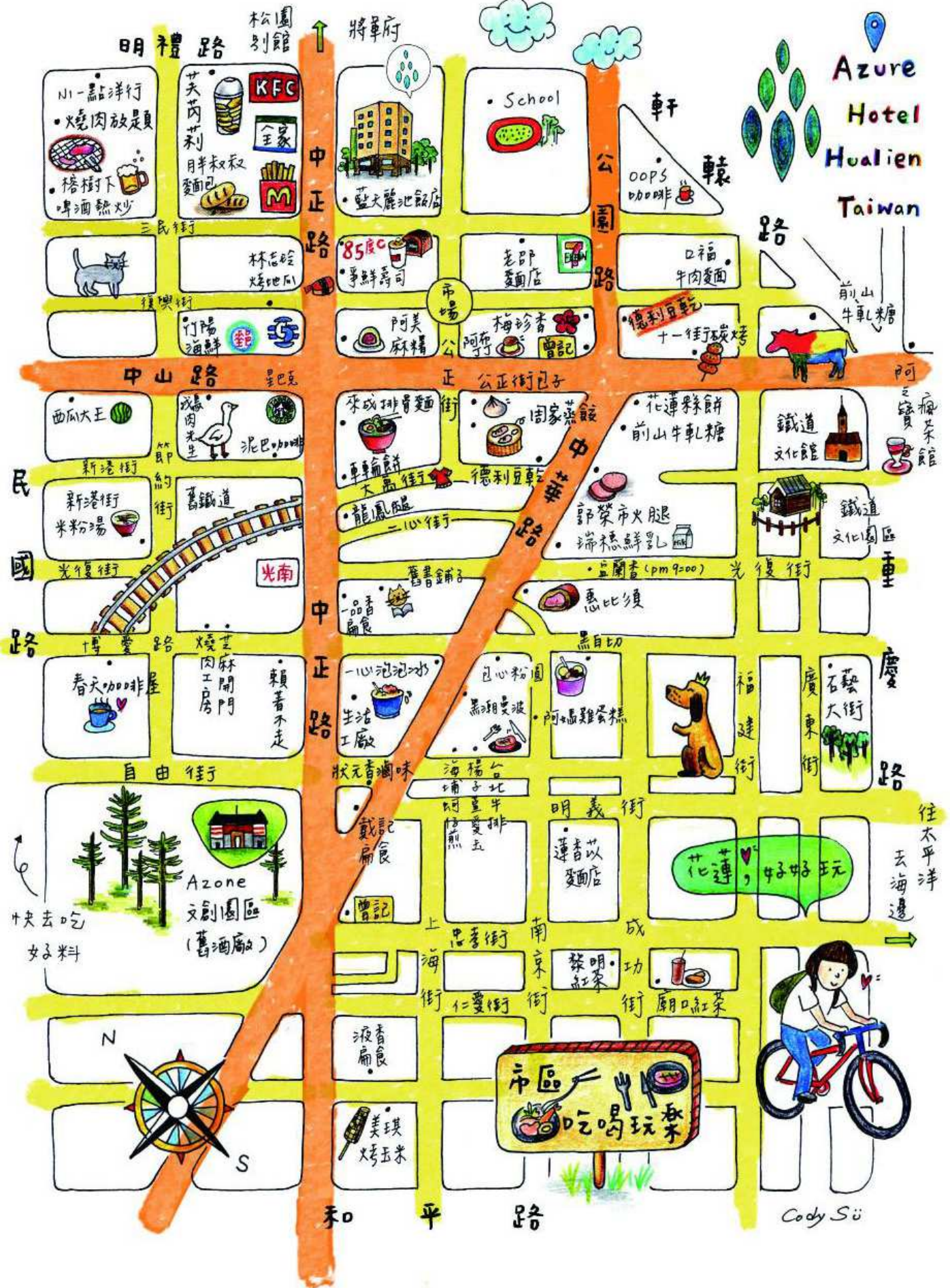 Tunghai University, Taiwan

Map

TSA 2015 Venue: Azure Hotel

http://www.azurehotel.com.tw/

Address：No 590, Zhong-zheng Rd, Hualien, Taiwan

花蓮市中正路 590 號

Local Foods Direction Map

明禮路　松園別館　將軍府

Azure
Hotel
Hualien
Taiwan

N1一點洋行
・燒肉放題
・榕樹下
・啤酒熱炒

芙芮莉
月半叔叔
麵包
KFC
全家
M

藍天麗池飯店

School

軒轅路

OOPS咖啡

三民街

林志玲烤地瓜

85度c
爭鮮壽司

老郭麵店
7-ELEVEN

口福牛肉麵

前山牛軋糖

復興街

門陽海鮮

阿美麻糬　梅珍香　阿布　曾記

德利豆乾
十一街碳烤

中山路　星巴克

西瓜大王

戎鄉肉先生
泥巴咖啡

來成排骨麵店
・車輪餅
・龍鳳腿

周家蒸餃

花蓮縣餅
前山牛軋糖

鐵道文化館

阿之寶瘋茶館

新港街

新港街米粉湯

公正街包子
大黑街　德利豆乾
二心街

鄭榮市火腿
瑞穗鮮乳

鐵道文化園區

光復街

新港街米粉湯
光復街
光南

舊鐵道

舊書鋪子

益蘭香(pm9:00)

重慶路

博愛路　燒芝麻開門

春天咖啡屋

芝麻開門
賴著不走

一心記泡泡冰
生活工廠

一品香扁食

惠比須

包心粉圓
馬自切

阿嬤雞蛋糕

福建街　廣東街　石藝大街

中正路

狀元香滷味

戴記扁食
曾記

海埔阿伯煎　楊子牛排　台北童愛玉

明義街
蓮香齋麵店

花蓮，好好玩

往太平洋去海邊

自由街

Azone
文創園區
(舊酒廠)

快去吃好料

忠孝街　南京街　成功街
上海街　仁愛街
黎明紅茶
廟口紅茶

液香扁食

市區吃喝玩樂

N

S

美琪烤玉米

和　平　路

Cody Sü